

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1.- 10. (Cancelled).

Claim 11. (Original) A process for manufacturing a combustion chamber for a rocket drive, comprising:

producing a fibrous structure from layers of carbon-containing fibers with a three-dimensional matrix;

producing a ceramic matrix composite material by feeding silicon into said fibrous structure to form a silicon carbide matrix; and

making at least one composite material jacket from said composite material.

Claim 12. (Currently Amended) A process according to Claim 11,

wherein said fibrous structure is constructed from first, second and third layers of fibers, wherein [[the]] fibers of said first layer extend in a first direction in space; [[the]] fibers of said second layer extend in a second direction in space; and [[the]] fibers of said third layer extend in a third direction in space; and

wherein said first, second, and third layers penetrate each other at least partially.

Claim 13. (Original) A process according to Claim 11, wherein said first, second and third layers of said fibrous structure are connected together by means of textile technology.

Claim 14. (Original) A process according to Claim 13, wherein said first, second, and third layers are connected together by at least one of weaving and sewing.

Claim 15. (Original) A process according to Claim 11, further comprising channel-shaped spaces in at least one of on the surface of the fibrous structure and in the fibrous structure.

Claim 16. (Original) A process according to Claim 11, wherein said channel-shaped spaces are worked into the surface of the composite material by mechanical treatment.

Claim 17. (Original) A process according to Claim 15, wherein at least the surface areas of the composite material provided with said channel-shaped spaces are coated with metal.

Claim 18. (Original) A process according to Claim 16, wherein at least the surface areas of the composite material provided with said channel-shaped spaces are coated with metal.

Claim 19. (Currently Amended) A process according to Claim 11, further comprising arranging channel-shaped contracting bodies ~~arranged~~ on at least one of on the surface of said fibrous structure and in said fibrous structure.

Claim 20. (Currently Amended) A process according to Claim 11, further comprising affixing a load-bearing external jacket ~~affixed~~ on said jacket.

Claim 21. (Original) A process according to Claim 19, wherein said external jacket is made of metal material.

Claim 22. (Original) A process according to Claim 20, wherein said external jacket is affixed by electroplating, soldering, or welding.

Claim 23. (Currently Amended) A process according to Claim 19, further comprising providing an intermediate layer between said external jacket and said composite material jacket, wherein the thermal expansion coefficient of said intermediate layer is between that of said external jacket and that of said composite material jacket.

Claim 24. (Currently Amended) A process according to Claim 22, wherein:

~~wherein~~ said intermediate layer comprises a composite material with a metal matrix;

~~wherein~~ said intermediate layer is affixed on said composite material jacket;

~~wherein~~ said external jacket comprises a metal material; and

wherein said external jacket is affixed on said intermediate layer.

Claim 25. (Currently Amended) A process according to Claim 23, wherein said ~~affixing is completed by~~ providing step comprises:

first affixing a fibrous structure on said composite material jacket; and [[, then]]

thereafter depositing a metal material on said fibrous structure with simultaneous infiltration of said fibrous structure with said metal material.

Claim 26. (Original) A process according to Claim 24, wherein said metal material is deposited by means of electroplating.

Claim 27. (Currently Amended) A process for manufacturing an intermediate layer between an internal jacket and an external jacket of a combustion chamber for a rocket drive, comprising:

affixing a fibrous structure made of carbon-containing fibers on the internal jacket; and

depositing a metal material on said fibrous structure with simultaneous infiltration of the fibrous structure with said metal material; [[,]]

wherein at least one part of the internal jacket or the external jacket is made of a composite material with fibrous structure of carbon-containing fibers.

Claim 28. (Original) A process according to Claim 26, wherein said metal material is deposited by means of electroplating.

Claim 29. (New) A process for manufacturing an intermediate layer between an internal jacket and an external jacket of a combustion chamber for a rocket drive, comprising:

affixing a fibrous structure made of carbon-containing fibers on the internal jacket; and

depositing a metal material on said fibrous structure with substantially simultaneous infiltration of the fibrous structure with said metal material; wherein

at least one part of the internal jacket or the external jacket is made of a composite material with fibrous structure of carbon-containing fibers; and

said depositing step includes formation of said external jacket, substantially simultaneously with infiltration of the fibrous structure with said metal material.